

Name: _____ P: _____

HW# 145: Vol. & SA of Spheres. 2

Due: Thursday, April 17th

Geometry

Failure to show all work will result in a LaSalle!

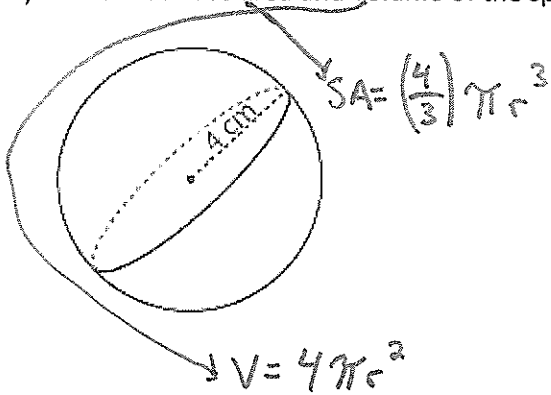
QUIZ on FRIDAY! You'll need to know the formulas for all 3-D shapes we've covered and how to apply them! To help yourself, fill out the formulas FROM MEMORY and then check your work. Circle anything you got wrong OR had to look up, and make a plan to learn them!

Solid (3-dimensional shape)	Formula: VOLUME (from memory!)	Formula: SURFACE AREA (no peeking!)
RECTANGULAR PRISM		
CUBE		
CYLINDER		
SPHERE		
HEMISPHERE		

Your score on the formulas: _____ / 10

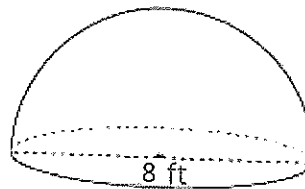
If <10/10, what is your plan to learn them? Be specific! _____

1) Find the surface area and volume of the sphere.



Surface Area: _____ Volume: _____

2) Find the surface area and volume of the hemisphere.



Use same formulas as from #1, but since a hemisphere is half of a sphere you need to divide answers by two

Surface Area: _____ Volume: _____

Define Your Pride

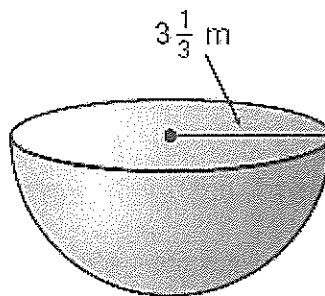
3) A bowling ball has a circumference of 10π inches. What is the radius of the ball? What is its surface area & volume?

Bowling ball is in shape of a _____?

Write formula for
SA:
V:

Radius: _____ Surface Area: _____ Volume: _____

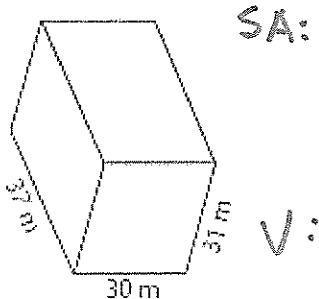
4) Find the surface area and volume of the hemisphere. Round your answer to two decimal places.



Look at #2

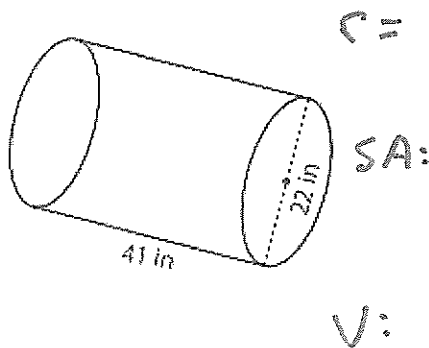
Surface Area: _____ Volume: _____

5) Find the surface area and volume of the rectangular prism.



Surface Area: _____ Volume: _____

6) Find the surface area and volume of the cylinder.



Surface Area: _____ Volume: _____

7) Edward Box Makers produces carton boxes each has a length of 40 centimeters, a width of 25 centimeters and a height of 19 centimeters. Find the minimum area of paper required to wrap each box.

Draw a picture

Find surface area

8) A tissue manufacturer wants to create a tissue box that is 4 inches tall and has enough space inside to fit 160 square inches of tissue. What are two possible dimensions for the base?